

Substitute for Form 1449A/PTO (Modified)

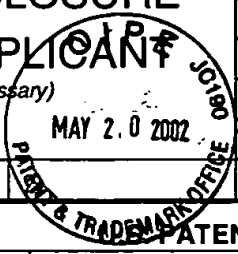
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

**Complete if Known**

Application Number	09/692,681
Filing Date	October 18, 2000
First Named Inventor:	Hui Liu
Group Art Unit	2661
Examiner Name	Unknown
Attorney Docket Number	005158.P003

Sheet 1 of



## PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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2

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**First Named Inventor:**

Hui Liu

### Group Art Unit

2661

**Examiner Name**

Unassigned

Attorney Docket Number

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**U.S. PATENT DOCUMENTS**

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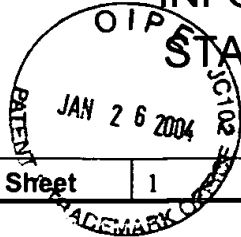
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Art Unit	2661
Examiner Name	Not Yet Assigned
Attorney Docket Number	005158.P003

Sheet 1 of 1

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
<del>M/m</del>		US-	5,734,967	3/31/1998	Kotzin et al.	
<del>M/m</del>		US-	5,886,988	3/23/1999	Yun et al.	
<del>M/m</del>		US-	5,887,245	3/23/1999	Lindroth et al.	
<del>M/m</del>		US-	5,933,421	8/3/1999	Alamouti, et al.	
<del>M/m</del>		US-	6,061,568	5/9/2000	Dent	
<del>M/m</del>		US-	6,108,374	8/22/2000	Balachandran et al.	
<del>M/m</del>		US-	6,226,320 B1	5/1/2001	Hakkinen et al.	
<del>M/m</del>		US-	6,366,195 B1	4/2/2002	Harel et al.	
<del>M/m</del>		US-	6,477,158 B2	11/5/2002	Take	
<del>M/m</del>		US-	2003/0067890 A1	4/10/2003	Goel et al.	
<del>M/m</del>		US-	2003/0169824 A1	9/11/2003	Chayat	
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		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
<i>m/m</i>		JP	06029922	2/4/1994	Mitsuru et al.		

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## **U.S. PATENT DOCUMENTS**

Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Filing Date if Appropriate
	Number				
mjm	6,067,290		Paulraj et al.	5/23/2000	
mjm	6,064,694		Clark et al.	5/16/2000	
mjm	6,052,594		Chuang et al.	4/18/2000	
mjm	6,005,876		Cimini, Jr. et al.	12/21/1999	
mjm	5,973,642		Li et al.	10/26/1999	
mjm	5,956,642		Larsson et al.	9/21/1999	
mjm	6,041,237		Farsakh	3/21/2000	
mjm	6,064,692		Chow	5/16/2000	

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## **OTHER DOCUMENTS**

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mjm	BENDER et al., CDMA/HDR: A Bandwidth-Efficient High Speed Wireless Data Service for	
mjm	Nomadic Users, IEEE Communications Magazine, July 2000, pp. 70-87.	
mjm	FRULLONE et al., PRMA Performance in Cellular Environments with Self-Adaptive Channel	
mjm	Allocation Strategies, IEEE Transactions on Vehicular Technology, November 1996, pp.657-665	
mjm	Vol. 45 No. 4.	

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mjm	XU, GUANGHAN and LI, SAN-QI, Throughput Multiplication of Wireless Lans for Multimedia	
mjm	Services: SDMA Protocol Design, 1994 IEEE, pp. 1326-1332.	
mjm	WARD, JAMES and COMPTON, R. TED, JR., High Throughput Slotted ALOHA Packet Radio	
mjm	Networks with Adaptive Arrays, IEEE Transactions on Communications, March 1993, pp. 460-470,	
mjm	Vol. 41, No. 3.	

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	TSOULOS, G.V., Smart antennas for mobile communication systems: benefits and challenges,	
	Electronics & Communication Engineering Journal, April 1999, pp. 84-94.	
	SHAD et al., Indoor SDMA Capacity Using a Smart Antenna Basestation, 1997 IEEE, pp. 868-872.	
	FARSAKH, CHRISTOF and NOSSEK, JOSEF A., On the Mobile Radio Capacity Increase	
	Through SDMA, no date (after 1997).	

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